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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/660,641	09/12/2003	Machiko Segawa	242740US6	7107	
	7590 06/04/200 AK, MCCLELLAND,	EXAM	EXAMINER		
1940 DUKE STREET			CARTER, A	CARTER, AARON W	
ALEXANDRIA, VA 22314		•	ART UNIT	PAPER NUMBER	
			2624		
			NOTIFICATION DATE	DELIVERY MODE	
			06/04/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

•	,	Application No.	Applicant(s)		
Office Action Summary		10/660,641	SEGAWA ET AL.		
		Examiner	Art Unit		
		Aaron W. Carter	2624		
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply				
WHIC - Exter after - If NO - Failui Any r	CHEVER IS LONGER, FROM THE MAILING DATES asions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be time 11 apply and will expire SIX (6) MONTHS from the 12 cause the application to become ABANDONEL	l. ely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status					
1)🖂	Responsive to communication(s) filed on 11 Fe	ebruary 2004.			
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.				
3) 🗌) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>1-24</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>1-24</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or				
Application Papers					
10) 🖾 -	The specification is objected to by the Examiner The drawing(s) filed on 12 September 2003 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Example 1.	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment 1) Notice	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)		
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:			

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities:

On page 12, line 11, Equation 1 contains the variable (N) twice, and according to the following paragraph, lines 12-21; it would appear that the variable (N) in the equation has two different definitions. One instance of (N) representing "the number of times of recognition to identify as the same person in the past with regard to the face region A1 being recognized now" and the other instance representing "the area of the face region A1 being recognized".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitation "the face recognition" in 14. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2624

Claim 3 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 4 recites the limitation "the present position" in lines 5-6. There is insufficient antecedent basis for this limitation in the claim.

Claim 7 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 8 recites the limitation "the present position" in lines 5-6. There is insufficient antecedent basis for this limitation in the claim.

Claim 9 recites the limitation "the present situation" in lines 4-5. There is insufficient antecedent basis for this limitation in the claim.

Claim 11 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 12 recites the limitation "the present position" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2624

Claim 15 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 16 recites the limitation "the present position" in 5-6. There is insufficient antecedent basis for this limitation in the claim.

Claim 17 recites the limitation "the present situation" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 19 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 20 recites the limitation "the present position" in line 5. There is insufficient antecedent basis for this limitation in the claim.

Claim 23 recites the limitation "the present position" in lines 3-4. There is insufficient antecedent basis for this limitation in the claim.

Claim 24 recites the limitation "the present position" in 5-6. There is insufficient antecedent basis for this limitation in the claim.

Art Unit: 2624

The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

Claims 17-24 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 17 defines an "image recognition program" embodying functional descriptive material. However, the claim does not define a computer-

Art Unit: 2624

readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently "image recognition program" can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to embody the program on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

Allowable Subject Matter

4. Claims 1-16 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

USPN 6,549,913 to Murakawa discloses object recognition including storing attributes with the images in a database.

USPN 7,035,440 to Kaku discloses image database management including position with the image.

USPN 7,177,450 to Tajima discloses image recognition.

Art Unit: 2624

USPN 6,188,777 to Darrell et al. discloses image recognition.

USPN 6,570,498 to Frost et al. discloses image recognition.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron W. Carter whose telephone number is (571) 272-7445. The examiner can normally be reached on 8am - 4:30 am (Mon. - Fri.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (571) 272-7453. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aaron Carte AU 2624